

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P477723

Luminaire Tested: **IFLD-S-SA2B-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477723
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

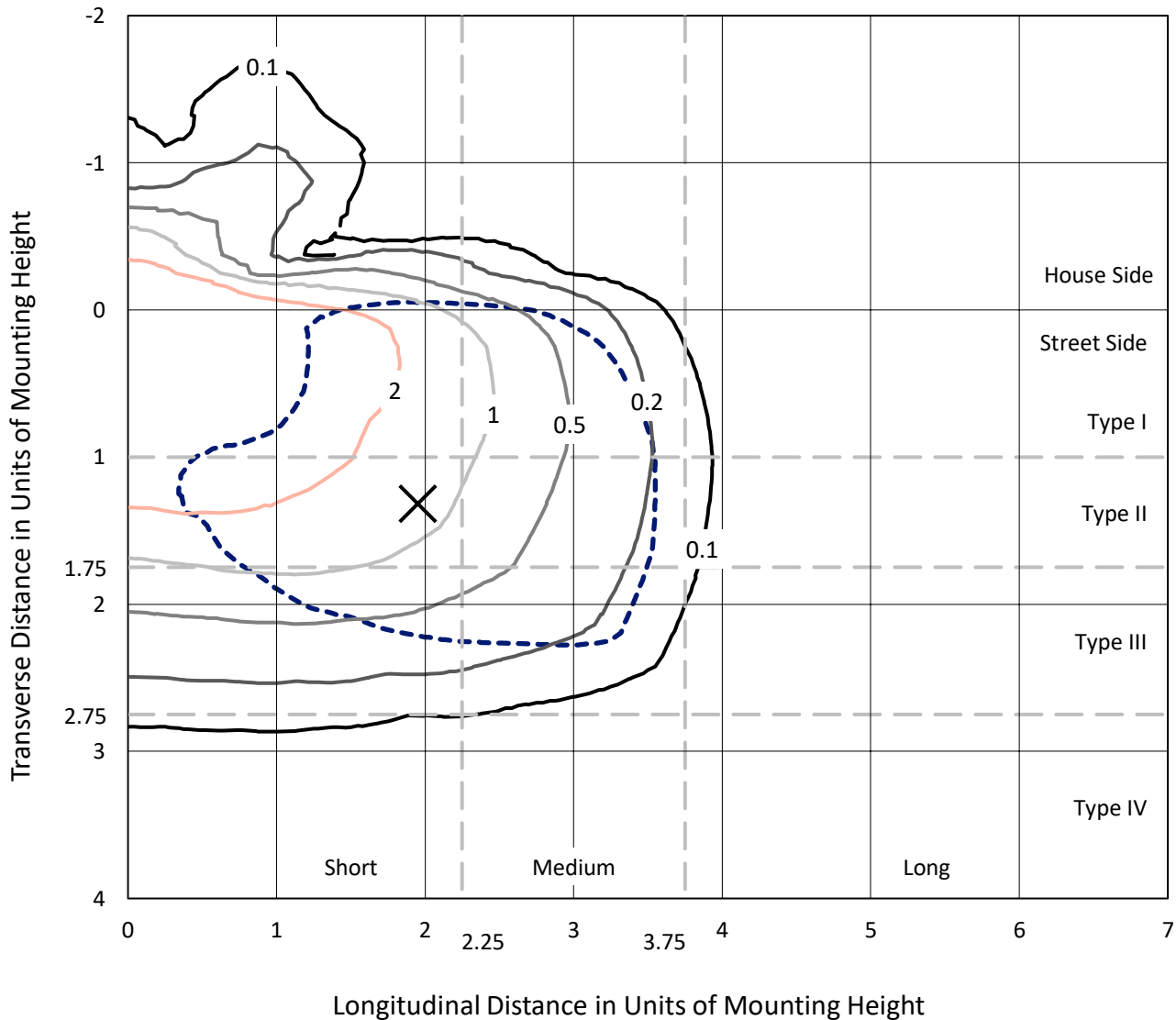
Lumens per Lamp: N/A
Luminaire Lumens: 11062 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P477723
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

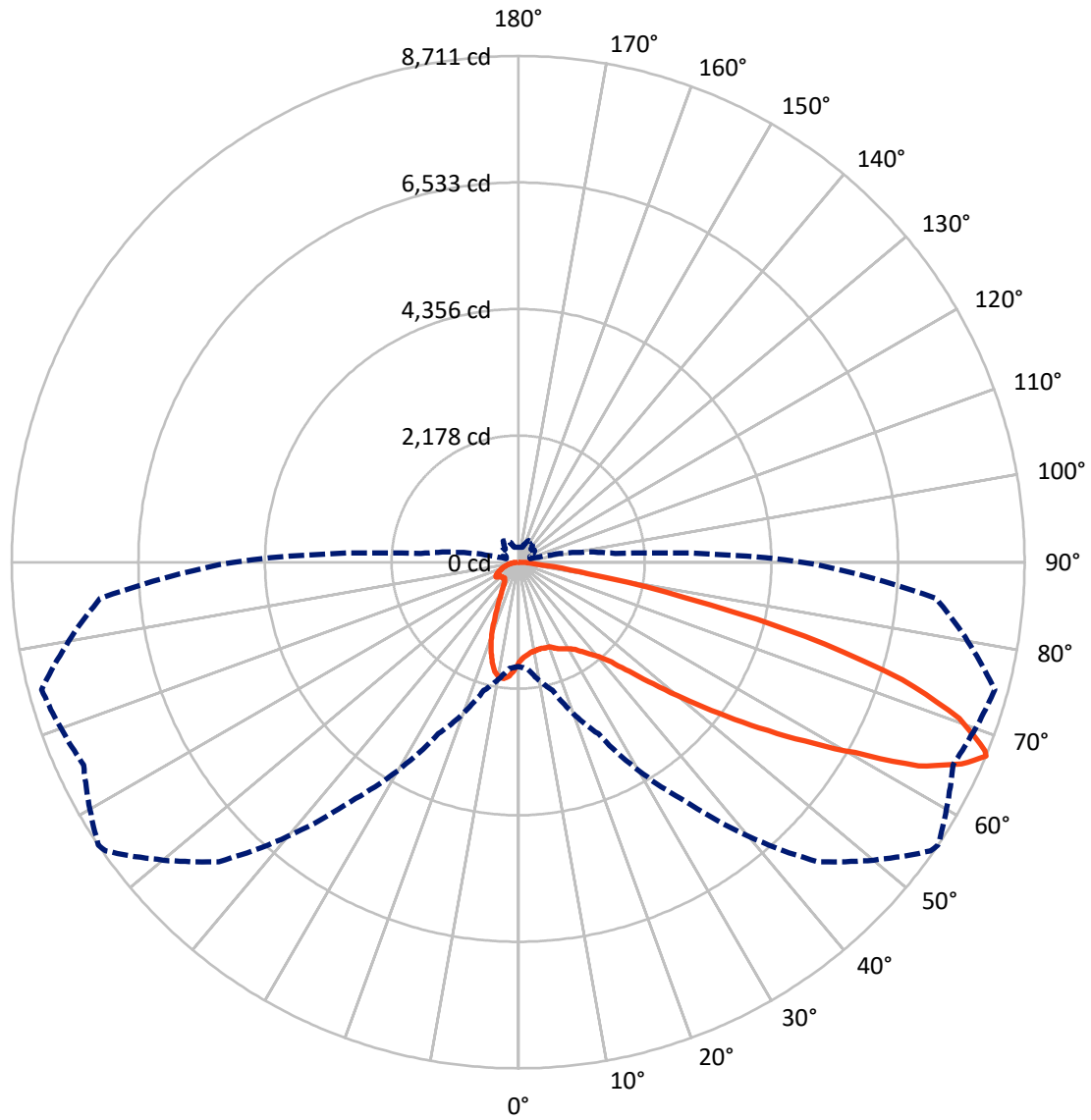
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

REPORT NUMBER: P477723
CATALOG NUMBER: IFLD-S-SA2B-735-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1751.2	0.0	1751.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	9310.8	0.0	9310.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	11062.0	0.0	11062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	1.5
10°-20°	452.4	4.1
20°-30°	709.4	6.4
30°-40°	1012.8	9.2
40°-50°	1528.5	13.8
50°-60°	2433.2	22.0
60°-70°	3110.6	28.1
70°-80°	1516.6	13.7
80°-90°	132.7	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11062.0	100.0
0°-180°	11062.0	100.0

Coefficient of Utilization

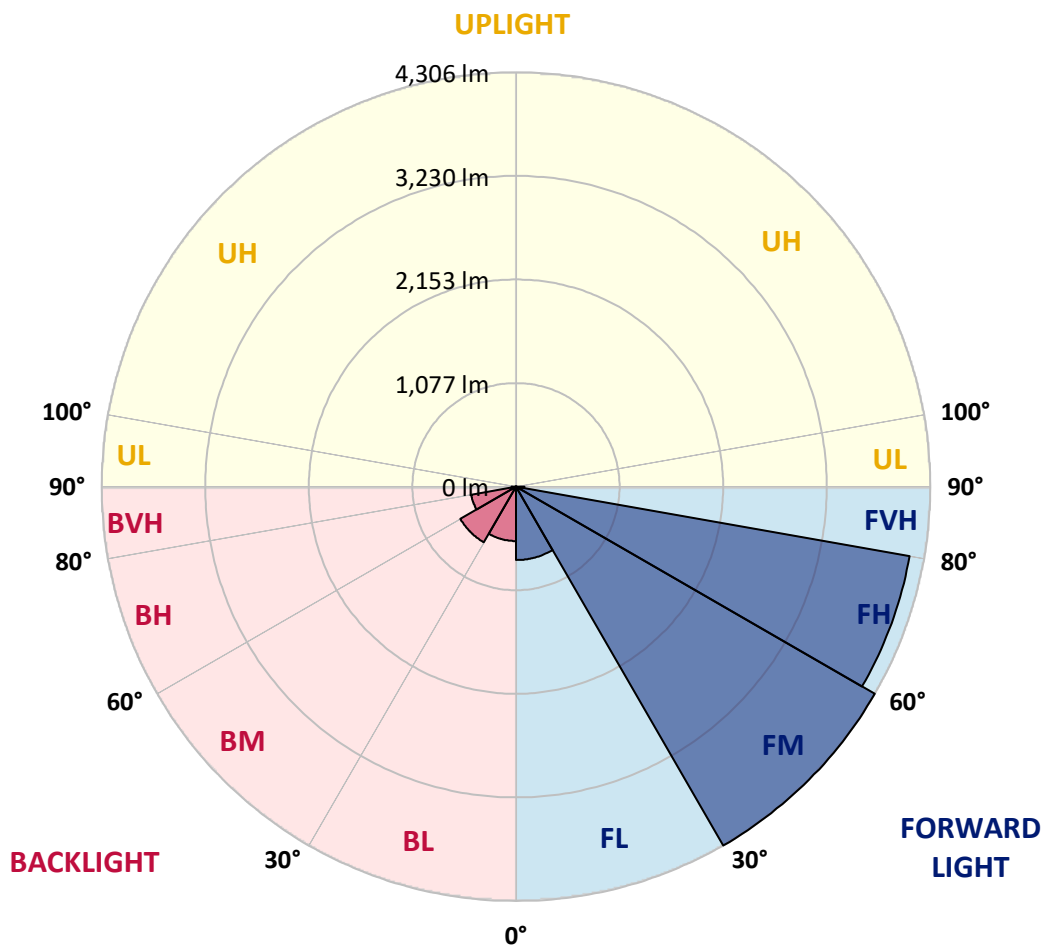


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.3	6.9			
FM (30°-60°)	4306.3	38.9			
FH (60°-80°)	4154.0	37.6			G2/5000
FVH (80°-90°)	88.1	0.8			G1/100
BL (0°-30°)	565.3	5.1	B2/1000		
BM (30°-60°)	668.1	6.0	B1/1000		
BH (60°-80°)	473.2	4.3	B1/500		G1/500
BVH (80°-90°)	44.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2
2.5°	1581.1	1574.6	1582.4	1574.6	1609.7	1630.4	1636.9	1646.0	1678.4	1709.5
5°	1515.0	1486.4	1517.6	1528.0	1530.5	1565.6	1601.9	1608.4	1625.2	1675.8
7.5°	1404.7	1437.2	1425.5	1456.6	1489.0	1524.1	1583.7	1566.9	1629.1	1677.1
10°	1381.4	1384.0	1396.9	1408.6	1437.2	1482.6	1565.6	1555.2	1618.7	1721.2
12.5°	1404.7	1404.7	1400.8	1391.8	1424.2	1468.3	1534.4	1539.6	1639.5	1734.2
15°	1486.4	1502.0	1460.5	1467.0	1454.0	1468.3	1526.7	1538.3	1647.3	1744.6
17.5°	1686.2	1681.0	1631.7	1563.0	1505.9	1496.8	1537.0	1550.0	1639.5	1774.4
20°	1880.8	1870.4	1784.8	1713.4	1600.6	1547.4	1553.9	1555.2	1652.5	1793.9
22.5°	2097.4	2124.6	2031.2	1885.9	1745.9	1613.6	1587.6	1608.4	1682.3	1804.2
25°	2437.2	2378.8	2298.4	2107.7	1882.1	1716.0	1643.4	1653.8	1710.8	1830.2
27.5°	2682.3	2659.0	2533.2	2378.8	2072.7	1796.4	1673.2	1692.7	1762.7	1828.9
30°	2918.4	2918.4	2841.9	2611.0	2273.8	1931.3	1736.8	1727.7	1738.1	1826.3
32.5°	3194.7	3157.1	3046.8	2893.8	2526.7	2054.6	1787.4	1790.0	1790.0	1874.3
35°	3340.0	3400.9	3327.0	3078.0	2720.0	2259.5	1909.3	1889.8	1875.6	1927.5
37.5°	3552.7	3589.0	3511.2	3364.6	2959.9	2425.5	2016.9	2001.4	1918.4	1969.0
40°	3681.1	3674.6	3672.0	3604.6	3277.7	2621.4	2175.2	2135.0	2023.4	2115.5
42.5°	3753.7	3740.8	3900.3	3858.8	3577.3	2909.3	2373.6	2351.6	2228.4	2376.2
45°	3835.4	3931.4	4062.4	4179.2	3926.2	3314.0	2709.6	2678.5	2568.2	2756.3
47.5°	3906.8	4024.8	4192.1	4316.7	4241.4	3753.7	3124.6	3132.4	3059.8	3253.1
50°	4026.1	4037.8	4264.8	4516.4	4574.8	4159.7	3682.4	3669.4	3637.0	3908.1
52.5°	3989.8	4024.8	4311.5	4633.1	4729.1	4589.0	4281.6	4320.5	4277.7	4618.9
55°	3398.3	3503.4	4282.9	4756.4	5094.9	5074.1	5052.1	5026.2	5023.6	5417.9
57.5°	3129.8	3215.4	3773.2	4892.6	5486.6	5639.7	5782.4	5810.9	5809.6	6285.6
60°	2953.4	3041.6	3567.0	4818.6	5820.0	6380.3	6654.0	6657.9	6650.1	7213.0
62.5°	2608.4	2694.0	3210.3	4413.9	5912.1	7063.9	7673.5	7724.1	7367.4	8012.0
65°	2193.4	2263.4	2718.7	3795.2	5666.9	7498.4	8440.1	8380.4	7971.8	8468.6
67°	1793.9	1840.5	2284.1	3258.2	5026.2	7289.5	8661.9	8711.1	8250.7	8488.0
67.5°	1679.7	1722.5	2141.5	3075.4	4782.3	7131.3	8669.6	8661.9	8255.9	8491.9
70°	1166.1	1184.2	1459.2	2115.5	3522.8	6024.9	8036.7	8054.8	7909.6	8031.5
72.5°	773.1	800.3	975.4	1333.4	2076.6	4384.1	6717.5	6912.1	6820.0	6585.2
75°	498.1	513.6	638.2	793.8	1022.1	2496.9	4962.6	5092.3	4880.9	4072.8
77.5°	278.9	295.7	385.2	482.5	498.1	1039.0	2787.4	2948.2	2498.2	1730.3
80°	173.8	195.9	290.5	286.7	237.4	381.3	1149.2	1230.9	998.7	595.4
82.5°	131.0	147.9	224.4	201.0	133.6	169.9	430.6	461.8	365.8	229.6
85°	89.5	112.8	162.1	124.5	70.0	81.7	171.2	184.2	167.3	111.5
87.5°	32.4	48.0	84.3	62.3	31.1	24.6	55.8	62.3	59.7	50.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477723
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1721.2	0°	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2
1736.8	2.5°	1761.4	1779.6	1788.7	1841.8	1863.9	1860.0	1865.2	1873.0	1880.8	1891.1
1758.8	5°	1775.7	1831.5	1861.3	1923.6	1965.1	1946.9	1970.3	1963.8	1954.7	1953.4
1799.0	7.5°	1822.4	1893.7	1983.2	2000.1	2018.2	1972.8	1933.9	1880.8	1867.8	1822.4
1832.8	10°	1905.4	1963.8	2072.7	2079.2	1998.8	1882.1	1795.1	1684.9	1683.6	1617.4
1884.6	12.5°	1984.5	2050.7	2138.9	2101.3	1909.3	1749.8	1608.4	1487.7	1437.2	1403.4
1915.8	15°	2033.8	2142.8	2189.5	2027.3	1752.3	1537.0	1354.1	1224.4	1172.6	1147.9
1954.7	17.5°	2079.2	2231.0	2210.2	1897.6	1559.1	1317.8	1099.9	987.1	972.8	954.6
2016.9	20°	2141.5	2263.4	2136.3	1729.0	1339.9	1035.1	896.3	841.8	854.8	862.6
2023.4	22.5°	2199.8	2280.3	2042.9	1544.8	1058.4	819.8	751.0	762.7	782.1	808.1
2039.0	25°	2225.8	2307.5	1917.1	1290.6	805.5	690.0	674.5	693.9	726.4	727.7
2061.0	27.5°	2242.6	2288.0	1765.3	1042.8	636.9	603.1	626.5	640.8	644.6	660.2
2107.7	30°	2272.5	2247.8	1573.3	745.8	534.4	535.7	565.5	565.5	565.5	577.2
2154.4	32.5°	2324.4	2220.6	1349.0	544.8	460.5	502.0	494.2	491.6	486.4	472.1
2214.1	35°	2356.8	2146.7	1064.9	403.4	413.8	460.5	457.9	417.7	350.2	316.5
2365.9	37.5°	2424.2	2109.0	783.4	311.3	386.5	439.7	425.4	328.2	254.2	221.8
2553.9	40°	2569.5	2084.4	542.2	272.4	368.4	429.3	380.0	280.2	194.6	137.5
2844.5	42.5°	2747.2	2085.7	368.4	256.8	369.7	451.4	365.8	240.0	137.5	110.3
3232.3	45°	2985.9	2066.2	252.9	256.8	393.0	487.7	374.9	217.9	133.6	140.1
3718.7	47.5°	3242.7	2083.1	188.1	233.5	396.9	489.0	342.4	214.0	128.4	162.1
4247.9	50°	3542.3	2100.0	155.6	215.3	398.2	473.4	315.2	208.8	133.6	171.2
4854.9	52.5°	3851.0	2153.1	132.3	203.6	413.8	466.9	315.2	216.6	133.6	149.2
5628.0	55°	4311.5	2289.3	190.7	254.2	470.8	509.7	387.8	303.5	186.8	192.0
6368.6	57.5°	4819.9	2429.4	212.7	267.2	483.8	459.2	417.7	334.6	197.2	198.5
6944.5	60°	5154.6	2434.6	211.4	260.7	452.7	396.9	408.6	352.8	201.0	169.9
7301.2	62.5°	5288.2	2276.4	220.5	260.7	421.5	371.0	419.0	380.0	207.5	212.7
7402.4	65°	5136.4	1949.5	212.7	233.5	371.0	332.1	421.5	385.2	227.0	214.0
7220.8	67°	4899.0	1679.7	216.6	221.8	345.0	315.2	443.6	404.7	263.3	256.8
7126.1	67.5°	4831.6	1608.4	215.3	215.3	335.9	310.0	448.8	404.7	268.5	265.9
6289.5	70°	4258.3	1303.6	220.5	212.7	297.0	294.4	477.3	426.7	308.7	311.3
4620.2	72.5°	3241.4	988.4	219.2	212.7	258.1	281.5	481.2	441.0	335.9	311.3
2587.7	75°	1841.8	591.5	193.3	185.5	203.6	245.1	450.1	420.3	326.9	278.9
1033.8	77.5°	761.4	304.8	177.7	167.3	168.6	199.7	374.9	391.7	311.3	237.4
345.0	80°	284.1	182.9	142.7	133.6	129.7	146.6	267.2	312.6	265.9	194.6
151.8	82.5°	147.9	114.1	97.3	97.3	88.2	93.4	144.0	207.5	201.0	133.6
61.0	85°	75.2	64.9	55.8	54.5	49.3	44.1	72.6	123.2	115.4	73.9
27.2	87.5°	40.2	36.3	23.3	22.1	18.2	11.7	13.0	24.6	40.2	32.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



180°
1721.2
1901.5
1965.1
1838.0
1614.9
1395.7
1142.7
963.7
853.5
793.8
740.6
674.5
590.2
464.4
332.1
220.5
133.6
107.7
142.7
180.3
198.5
153.1
202.3
192.0
175.1
215.3
210.1
252.9
260.7
288.0
276.3
249.0
224.4
177.7
105.1
61.0
23.3
0.0

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